

## AOTIQUAL RD-010

# AOTIQUAL Digital Radon Detector

Model: RD-010

## INTRODUCTION

The AOTIQUAL Digital Radon Detector provides continuous monitoring of radon gas concentrations in indoor environments. This device is designed for accurate pCi/L concentration detection, offering reliable information for both residential and commercial settings. It features a user-friendly LCD display for easy reading of radon levels and offers dual power options for flexible use.

The AOTIQUAL Digital Radon Detector is suitable for various indoor environments, including living rooms, basements, offices, and classrooms.

Radon is an invisible, odorless, and tasteless radioactive gas that naturally occurs from the decay of uranium in soil and rocks. It can enter buildings through cracks in foundations, construction joints, or openings around pipes. Prolonged exposure to elevated radon levels can pose health risks. This detector helps users monitor radon levels to ensure a safer indoor environment.

Monitoring radon levels helps protect health, as radon is an unseen threat that can increase health risks.

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- AOTIQUAL Digital Radon Detector (Model RD-010)
- 3 AAA Batteries
- Desiccant
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## PRODUCT OVERVIEW

The AOTIQUAL Digital Radon Detector features a clear LCD screen that displays both long-term and short-

term average radon concentrations. The device is equipped with control buttons on the back for resetting readings and changing display modes. It also includes a foldable stand for convenient placement.

Detailed view of the radon detector, highlighting the LCD display and control buttons on the back.

## SETUP

1. **Battery Installation:** Open the battery compartment on the back of the device. Insert the 3 AAA batteries provided, ensuring correct polarity.
2. **Power Options:** The detector can be powered by the installed AAA batteries or via a USB-C cable (included) connected to a compatible power source.
3. **Initial Placement:** For optimal accuracy, position the device in a dry, warm environment at least 50 cm (approximately 20 inches) above ground level. Avoid placing it near windows, doors, or areas with strong electromagnetic interference (e.g., microwaves, refrigerators, large appliances). Maintain stillness during operation to ensure measurement integrity.

The device supports both AAA battery power and USB-C charging.

Proper placement is crucial for accurate radon detection, considering various environmental factors.

## OPERATING INSTRUCTIONS

Once powered on, the device will begin collecting data. The initial reading display typically appears after approximately 6 hours. After this initial period, data updates occur approximately every 60 minutes.

- **Long Term Average:** Represents the average radon value over the ongoing measurement period, up to a maximum of one year. This value is used to identify any potential long-term health risks.
- **Short Term Average:** Alternates between showing the radon value over the last day and over the last 7 days. This is useful for observing the effect of measures taken to reduce radon levels.
- **Reset Button:** Press the 'RESET' button on the back of the device to clear all previous data and start a new measurement cycle.
- **Mode Button:** Press the 'MODE' button to cycle through different measurement periods (e.g., 24H, 48H, 72H, 96H, and Peak values) for the short-term average display.

The detector provides precise radon level reflections and supports viewing multiple detection periods.

Follow these guidelines to ensure the most accurate radon readings from your device.

## UNDERSTANDING RADON LEVELS

The detector's indicator light and display provide clear information about radon concentration and potential danger ranges, typically measured in pCi/L (picocuries per liter).

- **Good:** Less than 2 pCi/L (Green indicator)
- **OK:** Between 2 and 4 pCi/L (Yellow indicator)

- **Poor:** More than 4 pCi/L (Red indicator)

The indicator light provides a quick visual reference for current radon levels.

The U.S. Environmental Protection Agency (EPA) recommends taking action to reduce radon levels if they are 4 pCi/L or higher. Consider mitigation for anything above 2.0 pCi/L.

Understanding the EPA's radon map and associated risks is important for home safety.

The device provides both long-term and short-term average readings for comprehensive monitoring.

Visual representation of the potential impact of radon on lung health.

## MAINTENANCE

- **Battery Life:** The device is designed with a 3-year battery life for continuous monitoring.
- **Sensor Lifespan:** The radon sensor has a durable 10-year lifespan, ensuring long-term dependable performance.
- **Charging:** If using the rechargeable battery option, a full charge typically takes 4-6 hours via the USB-C port.
- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the detector in a cool, dry place when not in use for extended periods.

## TROUBLESHOOTING

- **No Display:** Ensure batteries are correctly installed and charged, or connect the device via USB-C power.
- **Inconsistent Readings:** Verify the device is placed in an optimal location, away from drafts, direct sunlight, and electromagnetic interference. Allow sufficient time (at least 24 hours) for stable readings.
- **Device Not Responding:** Try resetting the device using the 'RESET' button. If issues persist, remove and reinsert batteries, or try a different power source.

## SPECIFICATIONS

Feature	Detail
Brand	AOTIQUAL
Model Number	RD-010
Power Source	AC Plug-in & Battery (3 AAA batteries included)
Product Dimensions	4.8"D x 1.2"W x 2.8"H
Item Weight	8 ounces
Alarm	Audible

Operating Humidity	10%-95%
Material	ABS
Battery Cell Type	Alkaline
Battery Life	3 years (estimated)
Sensor Lifespan	10 years

## WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official AOTIQUAL website. Keep your purchase receipt for warranty claims.

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